Advanced high temperature remote furnace monitoring system.

The Combustion Tec CCTV Furnace Monitoring System, using time-lapse video recording, is an excellent tool to increase furnace productivity and product quality. Can be used in any high temperature application including: power, steel, glass, cement, paper and boilers.

The system allows analysis of furnace operation and if necessary, correction of problems or deviations such as erratic flame patterns, process flaws and furnace performance. Burner flame characteristics can be viewed over time, so flame length, shape and angle can be adjusted for optimal operation.

More than 75 percent of the furnace interior can be monitored from a single location. The use of a high resolution CCD camera, superior optics and a highly efficient cooling system provides a reliable, sharp, clear image of internal furnace operation. The CCD camera signal can be used in conjunction with image processing equipment for automatic furnace control.

- Standard and custom-engineered systems

- Heat-resistant camera package with air, water and oxygen cooling options.
- Selectable lens angle and field of view pattern option.
- Includes video cassette recorder and monitor.
- Retraction system protects CCTV equipment from damage from power or cooling system failure.
- Fail-safe operating features.
Furnace Monitoring System

Performance-Engineered...Performance-Certified

Air/Water/Oxygen Panel –
All functions monitored from a single location

Lens Assembly

Camera/Enclosure –
Stainless steel, insulated, air cooled

Retraction Cylinder and Stand

Monitor and VCR

System Options
- Air Cooled
- Air Cooled with Ceramic Sleeve
- Air and Water Cooled
- Oxygen and Water Cooled
- Oxygen Cooled

Software Options

Thermal Imaging Software Features:
- Near real time image acquisition and result presentation
- Averaged temperature and intensity histogram provided for selected region of interest within the acquired image
- Provides temperature line profile along a user selected line in the acquired image
- Temperature distribution investigation and playback

Frame Capture Software Features:
- Digital recording and playback of captured frames
- Recalling frames based on Date/Time calendar tool
- Print function
- User selectable recording interval